



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010613  
CERTIFICATION DATE: October 2, 2013  
DATE RECERTIFICATION DUE: March 31, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

Melissa Kennedy

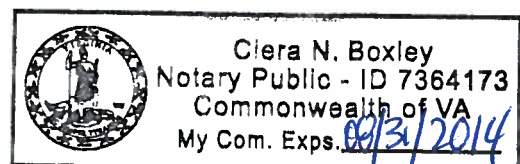
Program Manager, Calibration & Training

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 9th day of October, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014  
TLN



DBH  
msm

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 10/4/2013**

**Instrument Serial Number: 010613**

**As of 04-Oct-13**

<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
02-Oct-13	02-Oct-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
18-Apr-13	18-Apr-13	DBH (21250)	CERTIFIED.
21-Feb-13	07-Nov-12	DBH (21250)	REPLACED DRY GAS STANDARD.
07-Nov-12	07-Nov-12	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
22-May-12	22-May-12	DBH (21250)	CERTIFIED
03-May-12	07-Dec-11	DBH (21250)	REPLACED PRINTER RIBBON.
07-Dec-11	07-Dec-11	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.
12-Oct-11	29-Jun-11	DBH (21250)	REPLACED DRY GAS STANDARD
29-Jun-11	29-Jun-11	DBH (21250)	CERTIFIED
04-Jan-11	04-Jan-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
16-Sep-10	20-Jul-10	DBH (21250)	REPLACED DRY GAS STANDARD
20-Jul-10	20-Jul-10	DBH (21250)	CERTIFIED
03-May-10	04-Feb-10	DBH (21250)	REPLACED DRY GAS STANDARD
04-Feb-10	04-Feb-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
27-Aug-09	27-Aug-09	DBH (21250)	CERTIFIED.
18-May-09	18-May-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
16-Dec-08	16-Dec-08	DBH (21250)	CERTIFIED.
10-Nov-08	10-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBA

Wsk

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010613 Worksheet Start Date 10/2/2013

Location Chesapeake Bay Bridge Tunnel

Address 2400 Northampton Blvd Virginia Beach VA 23455

DFS Technician Donald Hall License No. 21250

☐ Laboratory ☒ On-Site

## Site Specifications

	Yes	No
<b>1 Secured Environment:</b> Location must not be accessible to the general public.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>2 Environment free from contaminants</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>3 Dedicated telephone line:</b> The phone line should be used solely by the instrument.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4 Adequate Ventilation:</b> Enough space must be provided for the instrument and the printer to allow for adequate ventilation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>5 Stable temperature controls:</b> The instrument should not be exposed to direct sources of temperature variation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>6 115VAC power source:</b> Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>7 Room Condition:</b> The site should be free of excessive moisture, heat and dust.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Old serial no.	New serial no.	Supplies	
E-Seek		Mouthpieces	125
Keyboard		Certificates of Analysis	125
Printer		Operator Worksheet	
UPS		Other:	

Maintenance (if any)  
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010613

Certification Date 10/2/2013

Instrument Barometer (mm HG) 760

Reference Barometer (mm HG) 765

Reference Barometer(RB)Serial # 009110

RB Calibration Due 5/30/2014

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.248
0.250	0.250	0.242	0.257	<b>Sample 2</b>	0.247
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.247
0.001		0.247	0.248		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.149
0.150	0.150	0.145	0.154	<b>Sample 2</b>	0.149
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.149
0		0.149	0.149		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.080
0.080	0.080	0.077	0.083	<b>Sample 2</b>	0.080
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.080
0		0.080	0.080		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.019
0.020	0.020	0.017	0.023	<b>Sample 2</b>	0.019
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG320502-01

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.100
0.100	0.100	0.097	0.103	<b>Sample 2</b>	0.100
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.100
0		0.100	0.100		

DFS Technician

*David B Hall*

Date

10/4/13

Issuing Analyst

*Melissa Kennedy*

Date

10/7/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

*TLN*

DFS Document 250-F113

Revision 6

Page 2 of 2

DBH

WBL



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>HALL, DONALD, B</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>21250</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>10/02/2013</b>
TEST EQUIPMENT NUMBER <b>010613</b>		

RESULTS: TIME SAMPLE TAKEN 11:36 EDT  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 02 Oct 2013 at 11:57

mmB  
DBH  
NW

## Test Results

Instrument Serial Number 010613

Test # 001561

Subject Test

Test Location 1 Department of  
Test Date 02 Oct 2013

Test Location 2 Forensic Science  
Test Time 11:29  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

License Number 21250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 02 Oct 2013 End Time 11:37

Result Time 11:36

Result Date 02 Oct 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:30

Data Type BLK

Sample Value 0.000

Sample Time 11:31

Data Type CHK

Sample Value 0.102

Sample Time 11:31

Data Type BLK

Sample Value 0.000

Sample Time 11:32

Data Type SUBJ

Sample Value 0.000

Sample Time 11:33

Data Type BLK

Sample Value 0.000

Sample Time 11:34

Data Type SUBJ

Sample Value 0.000

Sample Time 11:36

Data Type BLK

Sample Value 0.000

Sample Time 11:37

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG201104-14

Standard Expiration Date 01/11/2014

Tank Pressure 360

Barometric Pressure 760 mmHg

Blow Sample Number 1 Blow Duration 3.25 sec

Blow Volume 1735 cc End-of-Blow Time 11:33

Blow Sample Number 2 Blow Duration 3.39 sec

Blow Volume 1754 cc End-of-Blow Time 11:36

Tamper Evident Stamp b4b0510f

Test Status Code 0

Test Status Success

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010613      Test Number: 1562

Test Date: 10/02/2013      Test Time: 11:38 EDT

Dry Gas Target: 0.100

Lot Number: AG201104-14      Exp Date: 01/11/2014

Tank Pressure: 360 psi      Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:39
CHK	0.101	11:40
BLK	0.000	11:41
CHK	0.101	11:42
BLK	0.000	11:43
CHK	0.101	11:44

Test Status: *Success*

Calibration CRC: 15F71D73

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010613      Test Number: 1563

Test Date: 10/02/2013      Test Time: 11:47 EDT

Dry Gas Target: 0.300

Lot Number: AG322702-04      Exp Date: 08/15/2015

Tank Pressure: 232 psi      Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:47
CHK	0.303	11:48
BLK	0.000	11:50
CHK	0.302	11:51
BLK	0.000	11:52
CHK	0.301	11:53

Test Status: *Success*

Calibration CRC: 15F71D73

DBH

WHL



**Intox EC/IR-II: Software Version**

*Department of Forensic Science*

Serial Number: 010613

System Date: 10/02/2013

System Time: 12:13 EDT

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

DBH

WHL

**Intox EC/IR-II: Calibration**

*Department of Forensic Science*

Serial Number: 010613      Test Number: 1564

Test Date: 10/02/2013      Test Time: 12:15 EDT

Dry Gas Target: 0.100

Lot Number: 0651210013-05      Exp Date: 04/01/2014

Tank Pressure: 399 psi      Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:16
CAL	0.100	12:17

Test Status: *Success*

Calibration CRC: 0278AAD7

DBH

WHL

DBI

WHL

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010613      Test Number: 1565  
Test Date: 10/02/2013      Test Time: 12:20 EDT

Technician Initials: DBH

Dry Gas Target: 0.250

Lot Number: 2961225012-10      Exp Date: 11/01/2014

Tank Pressure: 208 psi      Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:21
BLK	0.000	12:21
CHK	0.248	12:22
BLK	0.000	12:24
CHK	0.247	12:24
BLK	0.000	12:26
CHK	0.247	12:27
BLK	0.000	12:28

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010613      Test Number: 1566  
Test Date: 10/02/2013      Test Time: 12:31 EDT

Technician Initials: DBH

Dry Gas Target: 0.150

Lot Number: 2951215012-03      Exp Date: 11/01/2014

Tank Pressure: 924 psi      Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:31
BLK	0.000	12:32
CHK	0.149	12:33
BLK	0.000	12:34
CHK	0.149	12:35
BLK	0.000	12:36
CHK	0.149	12:37
BLK	0.000	12:38

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010613      Test Number: 1567  
Test Date: 10/02/2013      Test Time: 12:41 EDT

Technician Initials: DBH

Dry Gas Target: 0.080

Lot Number: 0651208012-03      Exp Date: 04/01/2014

Tank Pressure: 174 psi      Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:42
BLK	0.000	12:43
CHK	0.080	12:43
BLK	0.000	12:44
CHK	0.080	12:45
BLK	0.000	12:47
CHK	0.080	12:47
BLK	0.000	12:48

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010613      Test Number: 1568  
Test Date: 10/02/2013      Test Time: 12:51 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0651202011-05      Exp Date: 04/01/2014

Tank Pressure: 90 psi      Barometric Pressure: 760 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:51
BLK	0.000	12:52
CHK	0.019	12:53
BLK	0.000	12:54
CHK	0.019	12:55
BLK	0.000	12:56
CHK	0.019	12:57
BLK	0.000	12:58

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

DBH

NSL

DB

NH

**Intox EC/IR-11: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010613      Test Number: 1569

Test Date: 10/02/2013      Test Time: 13:02 EDT

Dry Gas Target: 0.300

Lot Number: AG322702-04      Exp Date: 08/15/2015

Tank Pressure: 227 psi      Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:03
CHK	0.301	13:03
BLK	0.000	13:05
CHK	0.301	13:06
BLK	0.000	13:07
CHK	0.300	13:08

Test Status: *Success*

Calibration CRC: 0278AAD7

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010613      Test Number: 1570

Test Date: 10/02/2013      Test Time: 13:11 EDT

Dry Gas Target: 0.100

Lot Number: AG320502-01      Exp Date: 07/24/2015

Tank Pressure: 1120 psi      Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:12
CHK	0.100	13:13
BLK	0.000	13:14
CHK	0.100	13:15
BLK	0.000	13:16
CHK	0.100	13:17

Test Status: *Success*

Calibration CRC: 0278AAD7

DBT

MSA





COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>HALL, DONALD, B</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>21250</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>10/02/2013</b>
TEST EQUIPMENT NUMBER <b>010613</b>		

RESULTS: TIME SAMPLE TAKEN 13:26 EDT  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_.

BREATH TEST OPERATOR
----------------------

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 03 Oct 2013 at 10:49

DBH

Wk

## Test Results

Instrument Serial Number 010613

Test # 001571 Subject Test

Test Location 1 Department of  
Test Date 02 Oct 2013

Test Location 2 Forensic Science  
Test Time 13:19  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

Effective Date 10/01/2012

License Number 21250

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 02 Oct 2013 End Time 13:27

Result Time 13:26

Result Date 02 Oct 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:20

Data Type BLK

Sample Value 0.000

Sample Time 13:20

Data Type CHK

Sample Value 0.100

Sample Time 13:21

Data Type BLK

Sample Value 0.000

Sample Time 13:22

Data Type SUBJ

Sample Value 0.000

Sample Time 13:23

Data Type BLK

Sample Value 0.000

Sample Time 13:24

Data Type SUBJ

Sample Value 0.000

Sample Time 13:26

Data Type BLK

Sample Value 0.000

Sample Time 13:27

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG320502-01

Standard Expiration Date 07/24/2015

Tank Pressure 1120

Barometric Pressure 760 mmHg

Blow Sample Number 1 Blow Duration 3.56 sec

Blow Volume 1908 cc

End-of-Blow Time 13:23

Blow Sample Number 2 Blow Duration 3.62 sec

Blow Volume 2033 cc

End-of-Blow Time 13:26

Tamper Evident Stamp b92e6346

Test Status Code 0

Test Status Success